

Patent Abstracts of Japan

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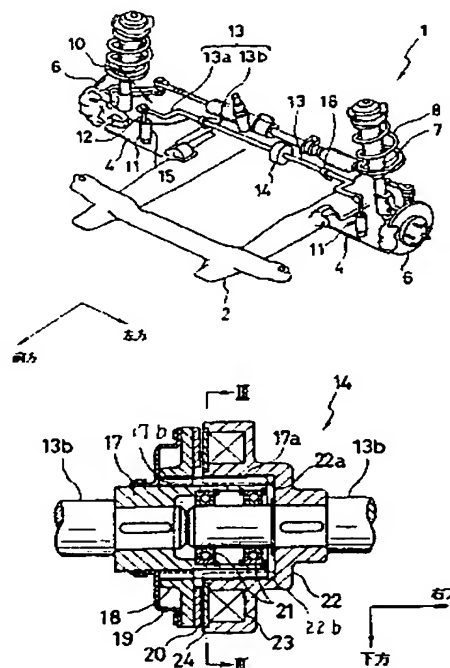
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APPLICANT : MAZDA MOTOR CORP;

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TITLE : ROLL DAMPER DEVICE



ABSTRACT : PURPOSE: To improve riding sensation and drive stability by laterally dividing a coupling member and intercoupling the two division parts through a clutch mechanism, in a device which intercouple damping force generating means, arranged to the suspension arms of wheels on both sides, through a coupling member extending in the direction of the width of a car.

CONSTITUTION: A roll damper device 1 for intercoupling A-shaped arms 4 on both sides of a front suspension device is provided with roll dampers 11 erected from respective A-shaped arms 10 and a coupling rod 13 to intercouple the upper end parts of piston rods 12 of the roll dampers 11 on both sides. In this case, the connecting rod 13 is divided into two sections, each division rod part is formed in a crankform manner with an arm part 13a extending rearwardly and a torsion shaft part 13b extending to the inner side of a car body, and the two division rod parts are intercoupled through a clutch mechanism 14. The clutch mechanism 14 is formed such that it is engaged and disengaged through control of energization to a solenoid 23 and during disengagement, relative rotational movement between the two division rod parts by a distance exceeding a given amount is regulated by means of spline teeth 17b and 22b.

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